

Docket No.

256740US2PCT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF:

Takunori TAIRA, et al.

SERIAL NO:

10/502,055

GAU:

FILED:

July 30, 2004

**EXAMINER:** 

FOR:

**OPTICAL DEVICE** 

## INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

#### REFERENCES

- The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

#### RELATED CASES

- Attached is a list of applicant's pending application(s) or issued patent(s) which may be related to the present application. In accordance with discussions on August 4, 2004 with Mr. Nicholas P. Godici, Commissioner for Patents, it is no longer required to submit copies of cited pending applications. A modification of the Rules will be published soon in the Official Gazette. Cited issued patents, if any, are listed on the attached PTO form 1449.
- A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

### CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- □ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

#### DEPOSIT ACCOUNT

Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

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Form PTO 1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE			ATTY DOCKET NO.		SERIAL NO.		
(Modified)		PATENT AND TRA	DEMARK OFFICE	256740US2PCT	10/502,055			
LIST OF REFERENCES CITED BY APPLICANT				APPLICANT				
				Takunori TAIRA, et al.				
				FILING DATE		GROUP		
				July 30, 2004				
				U.S. PATENT DOCUMENTS				
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB FILING DATE CLASS IF APPROPRIATE		
	AA	5 851 284	12/22/98	Shigeo ISHIBASHI, et al.				
			FO	REIGN PATENT DOCUMENTS				
		DOCUMENT NUMBER	DATE	COUNTRY		TRANSLATION		
			1-2-1-			YES	3	NO
	AB	5-330991	12/14/93	JP(with English abstract)				NO
	AC	2001-235775	08/31/01	JP(with English abstract)				NO
	AD	8-220301	08/30/96	JP(with English abstract)				NO
	AE							
		OTHER R	EFERENCES (	Including Author, Title, Date, Pertinent	Pages, e	tc.)		
	AF	Ichiro SHOJI, et al., "(100) Cut no YAG Kessho ni yoru Netsufucu Kussetsu Yuki Depolarization no Teigen", Dai 62 Kai Extended abstracts; the Japan Society of Applied Physics, 11 September, 2001 (11.09.01), vol. 3, 12a-ZK-3, page 799						
	AG	Ichiro SHOJI, et al., "(110) Cut no YAG Kessho ni yoru Netsufuku Kussetsu Yuki Depolarization no Teigen", Dai 49 Kai Oyo						
	ΛΟ	Butsurigaku Kankei Rengo Koenkai Koen Yokoshu, 27 March, 2002 (27.03.02), vol. 3, 30p-ZG-6, page 1058  Ichiro SHOJI et al., "Intrinsic reduction of the depolarization loss in solid-state lasers by use of a (110)-cut Y <sub>3</sub> AL <sub>5</sub> O <sub>12</sub> crystal",						
	АН	APPLIED PHYSICS LETTERS, vol. 80, no. 17, pages 3048-3050 04/29/02						
	Al	Ichiro SHOJI, et al., "Thermal-birefringence-induced depolarization in Nd: YAG ceramics", OPTICS LETTERS, vol. 27, no. 4, pages 234-236 02/15/02						
	AJ	S. ISHIBASHI, et al., "Cr, Ca:Y <sub>3</sub> AL <sub>5</sub> O <sub>12</sub> laser crystal grown by the laser-heated pedestal growth method", JOURNAL OF CRYSTAL GROWTH, vol. 183, pages 614-621 1998						
	AK	Yang Peizhi, et al., "The growth defects in Czochralski-grown Yb: YAG crystal", JOURNAL OF CRYSTAL GROWTH, vol 218, pages 87-92						
	AL	Walter KOECHNER, et al., "Effect of birefringence on the performance of linearly polarized YAG: Nd lasers", IEEE JOURNAL OF QUANTUM ELECTRONICS, vol. qe-6, no. 9, pages 557-566						
		1970 W. KOECHNER, et al., "Birefringence of YAG: Nd laser rods as a function of growth direction", JOURNAL OF THE OPTICAL						
	АМ	SOCIETY OF AMERICA, vol. 61, no. 6, pages 758-766 1971						
	AN	Vladimir PARFENOV, et al., "Numerical investigation of thermally induced birefringence in optical elements of solid-state lasers", APPLIED OPTICS, vol. 32, no. 27, apges 5243-5255 09/20/93						
	AO	Ichiro SHOJI, et al., "Thermal birefringence in Nd: YAG ceramics", TRENDS IN OPTICS AND PHOTONICS vol. 50, ADVANCED SOLID-STATE LASERS, pages 273-278 2001						
	AP	L. N SOMS, et al., "Problem of depolarization of linearly polarized light by a YAG: Nd laser-active element under thermally induced birefringence conditions", SOVIET JOURANL OF QUANTUM ELECTRONICS, vol. 10, no. 3, pages 350-351 1980						
	AQ							
	AR			-	Add	tional Refe	erences	sheet(s) attached
Examiner					Date Co	nsidered		
				t citation is in conformance with MPEP 60 n with next communication to applicant.	9; Draw li	ne through	citation	if not in

Rec'd PCT/PTO 27 SEP 2004

U.S. PCT Application Serial No.: 10/502,055 Docket No.: <u>256740US2PCT</u>

# STATEMENT OF RELEVANCY

Sea	arch Report. Copie		have been cited in the International being submitted herewith only when al Searching Authority.
		have been cited by of these references is b	ed in the corresponding <u>Written</u> eing submitted herewith.
		is discussed in the about the submitted here with.	specification. A copy of these
•		are additional prior art kno abmitted herewith.	own to Applicant. A copy of these